

## SEQUENCE LISTING

&lt;110&gt; REGENTS OF THE UNIVERSITY OF MINNESOTA

<120> HOMOLOGOUS RECOMBINATION IN MULTIPOTENT ADULT  
PROGENITOR CELLS

&lt;130&gt; 890003-2003.WO

&lt;140&gt; PCT/US03/38811

&lt;141&gt; 2003-11-25

&lt;150&gt; 60/429,631

&lt;151&gt; 2002-11-27

&lt;150&gt; PCT/US02/04652

&lt;151&gt; 2002-02-14

&lt;150&gt; PCT/US00/21387

&lt;151&gt; 2000-08-04

&lt;160&gt; 5

&lt;170&gt; PatentIn Ver. 3.2

&lt;210&gt; 1

&lt;211&gt; 1674

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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      20              25              30

Asp Thr Cys Leu His Val Ala Gln Phe Gln Glu Phe Leu Arg Lys Met
      35              40              45

Tyr Glu Ala Leu Lys Glu Met Asp Ser Asn Thr Val Ile Glu Arg Phe
      50              55              60

Pro Thr Ile Gly Gln Leu Leu Ala Lys Ala Cys Trp Asn Pro Phe Ile
      65              70              75              80

Leu Ala Tyr Asp Glu Ser Gln Lys Ile Leu Ile Trp Cys Leu Cys Cys
      85              90              95

Leu Ile Asn Lys Glu Pro Gln Asn Ser Gly Gln Ser Lys Leu Asn Ser
      100             105             110

Trp Ile Gln Gly Val Leu Ser His Ile Leu Ser Ala Leu Arg Phe Asp
      115             120             125

Lys Glu Val Ala Leu Phe Thr Gln Gly Leu Gly Tyr Ala Pro Ile Asp
      130             135             140

Tyr Tyr Pro Gly Leu Leu Lys Asn Met Val Leu Ser Leu Ala Ser Glu
      145             150             155             160

Leu Arg Glu Asn His Leu Asn Gly Phe Asn Thr Gln Arg Arg Met Ala
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Pro Glu Arg Val Ala Ser Leu Ser Arg Val Cys Val Pro Leu Ile Thr
      180             185             190

Leu Thr Asp Val Asp Pro Leu Val Glu Ala Leu Leu Ile Cys His Gly
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Arg Glu Pro Gln Glu Ile Leu Gln Pro Glu Phe Phe Glu Ala Val Asn
      210             215             220

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 260 265 270  
 Glu Cys Phe Ile Lys Asp Ser Ser Leu Pro Gln Ala Ala Cys His Pro  
 275 280 285  
 Ala Ile Phe Arg Val Val Asp Glu Met Phe Arg Cys Ala Leu Leu Glu  
 290 295 300  
 Thr Asp Gly Ala Leu Glu Ile Ile Ala Thr Ile Gln Val Phe Thr Gln  
 305 310 315 320  
 Cys Phe Val Glu Ala Leu Glu Lys Ala Ser Lys Gln Leu Arg Phe Ala  
 325 330 335  
 Leu Lys Thr Tyr Phe Pro Tyr Thr Ser Pro Ser Leu Ala Met Val Leu  
 340 345 350  
 Leu Gln Asp Pro Gln Asp Ile Pro Arg Gly His Trp Leu Gln Thr Leu  
 355 360 365  
 Lys His Ile Ser Glu Leu Leu Arg Glu Ala Val Glu Asp Gln Thr His  
 370 375 380  
 Gly Ser Cys Gly Gly Pro Phe Glu Ser Trp Phe Leu Phe Ile His Phe  
 385 390 395 400  
 Gly Gly Trp Ala Glu Met Val Ala Glu Gln Leu Leu Met Ser Ala Ala  
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 Glu Pro Pro Thr Ala Leu Leu Trp Leu Leu Ala Phe Tyr Tyr Gly Pro  
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 Arg Asp Gly Arg Gln Arg Ala Gln Thr Met Val Gln Val Lys Ala Val  
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 450 455 460  
 Asp Leu Gln Thr Val Ala Gly Gln Gly Thr Asp Thr Asp Leu Arg Ala  
 465 470 475 480  
 Pro Ala Gln Gln Leu Ile Arg His Leu Leu Leu Asn Phe Leu Leu Trp  
 485 490 495  
 Ala Pro Gly Gly His Thr Ile Ala Trp Asp Val Ile Thr Leu Met Ala  
 500 505 510

His Thr Ala Glu Ile Thr His Glu Ile Ile Gly Phe Leu Asp Gln Thr  
 515 520 525

Leu Tyr Arg Trp Asn Arg Leu Gly Ile Glu Ser Pro Arg Ser Glu Lys  
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Leu Ala Arg Glu Leu Leu Lys Glu Leu Arg Thr Gln Val  
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